CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2016-17 28.12.2016

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Development of Dobighat in Ward No.13, BBMP, Bangalore.
* Reference	:	AEE/PSD/PR/120/2016-17 Dated: 23.12.2016
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	28.12.2016

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	517	13.5	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:-

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Civil-tech Consultants & Engineers

#23/14, 7th Cross, 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/227e/Cube/2016-17 30.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Project Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of the work	: Development of Dobighat in Ward No.13, BBMP, Bangalore.
* Reference	: AEE/PSD/PR/120/2016-17 Dated: 23.12.2016
* Sample ID	: Culvert Bottom Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 30.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.01.2017	30.01.2017	8.159	478.3	21.26
2	02.01.2017	30.01.2017	8.225	493.2	21.92
3	02.01.2017	30.01.2017	8.372	510.4	22.68

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Technical Manager

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.01.2017

Asst. Executive Engineer Project Sub Division-I Dasarahalli Zone Bruhat Bengaluru Mahanagara Palike

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.01.2017	30.01.2017	8.139	475.5	21.13
2	02.01.2017	30.01.2017	8.298	493.6	21.94
3	02.01.2017	30.01.2017	8.335	512.4	22.77

*Information is furnished by the Customer/Representative.

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.01.2017	30.01.2017	8.105	485.3	21.57
2	02.01.2017	30.01.2017	8.292	492.6	21.89
3	02.01.2017	30.01.2017	8.335	516.4	22.95

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/227e/Cube/2016-17 02.02.2017

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* Agency	:	**Technical Manager,** KRIDL, Bangalore.
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* Sample ID	:	Culvert Bottom Slab Concrete
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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.02.2017

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone, Bruhat Bengaluru Mahanagara Palike

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.01.2017	02.02.2017	8.099	478.3	21.26
2	05.01.2017	02.02.2017	8.198	492.5	21.89
3	05.01.2017	02.02.2017	8.298	506.3	22.50

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Sample Received on	:	02.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.01.2017	02.02.2017	8.129	482.3	21.44
2	05.01.2017	02.02.2017	8.265	504.7	22.43
3	05.01.2017	02.02.2017	8.336	526.3	23.39

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